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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/657,094	09/09/2003	Takao Kamoshima	67161-098	9847		
75	90 04/19/2006		EXAM	EXAMINER		
McDermott, Will & Emery			NGUYEN,	NGUYEN, DILINH P		
600 13 th Steet, N.W. Washington, DC 20005-3096			ART UNIT	PAPER NUMBER		
			2814			
			DATE MAILED: 04/19/2006	6		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
		10/657,094	KAMOSHIMA ET AL.	
	Office Action Summary	Examiner	Art Unit	
		DiLinh Nguyen	2814	
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet	with the correspondence address	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication of period for reply is specified above, the maximum statutory pere to reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMU R 1.136(a). In no event, however, may n. eriod will apply and will expire SIX (6) N tatute, cause the application to become	NICATION. y a reply be timely filed NONTHS from the mailing date of this communicated about the communicated states of the comm	
Status				
•	Responsive to communication(s) filed on O This action is FINAL. 2b) Since this application is in condition for allocated in accordance with the practice und	This action is non-final. owance except for formal m	· · · · · · · · · · · · · · · · · · ·	its is
Disposit	ion of Claims			
5) □ 6) ⊠ 7) □ 8) □ Applicat 9) □ 10) □	Claim(s) 1 is/are pending in the application 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) 1 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction are ion Papers The specification is objected to by the Example the drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co	nd/or election requirement. niner. accepted or b) objected the drawing(s) be held in aberrection is required if the draw	yance. See 37 CFR 1.85(a). ing(s) is objected to. See 37 CFR 1.1	
Priority (under 35 U.S.C. § 119			
12)⊠ a)	Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu See the attached detailed Office action for a	nents have been received. nents have been received in priority documents have be reau (PCT Rule 17.2(a)).	n Application No en received in this National Stage	e ·
2) Notice No	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SE or No(s)/Mail Date) Paper I	w Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTO-152)	·

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DETAILED ACTION

Election/Restrictions

Applicant's election of Group I (figs. 1-7, claim 1) in the reply filed on 2/6/06 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless - .

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Farrar (U.S. Pat. 6395632).

Farrar discloses an interconnection structure (fig. 23), comprising:

a first conductive layer 81 (fig. 23) formed on a substrate 50 and composed of a copper layer (fig. 14, column 6, lines 13-14);

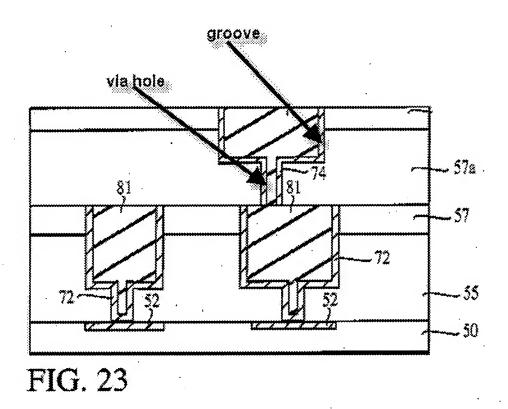
a single insulating layer 57a formed on the first conductive layer and having a hole reached the first conductive layer and a groove communicating with the hole;

a second conductive layer 83 formed within the insulating layer and composed of a copper layer (column 8, lines 6-7) electrically connected to the first conductive layer through the hole; and

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a single barrier metal layer 74 formed on an entire surface defining the hole and the groove in the insulating layer and formed between the second conductive layer 83 and the hole, and the insulating layer 57a; wherein

the barrier metal layer has an opening in a bottom portion of the hole, and the second conductive layer comes in direct contact with the first conductive layer through the opening (fig. 23).



Response to Arguments

Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection. Please see the above new ground of rejection.

Conclusion

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DiLinh Nguyen whose telephone number is (571) 272-1712. The examiner can normally be reached on 8:00AM - 6:00PM (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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DLN

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